CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION

ORDER NO. 81-30

NPDES NO. CA0028100

WASTE DISCHARGE REQUIREMENTS FOR:

IT CORPORATION
BENICIA CLASS I DISPOSAL SITE
BENICIA, SOLANO COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

- 1. IT Corporation, hereinafter called the discharger, submitted a report of waste discharge dated July 18, 1980.
- 2. The discharger currently operates an approved Class I disposal site for treatment and disposal of industrial and chemical wastes. The operation of this site is governed by separate discharge requirements. The location of this site is shown on Attachment A to this Order. The proposed discharge consists of stormwater runoff containing pollutants from specified areas within the site which are not used for waste disposal, but which are subject to deposition of Group I wastes in case of waste spills or overflow or failure of waste ponds. These areas are shown in Attachment B which is made a part of this Order. Drainage from these areas is collected behind the discharger's fail—safe dam, which was constructed to retain wastes on site in case of levee failure in waste holding ponds. The proposed discharge would be made in order to maintain emergency holding capacity behind the dam.
- 3. The discharge will be made to an unnamed watercourse at the point shown in Attachment B, at an average seasonal rate of approximately 100,000 gallons per day, and a daily maximum rate of approximately 500,000 gallons per day. The unnamed watercourse is tributary to Goodyear Slough and Suisun Bay, which are all waters of the United States.
- 4. The Board, in April 1975 adopted a Water Quality Control Plan for the San Francisco Bay Basin. The Plan contains water quality objectives for Suisun Bay and its tributaries.
- 5. The beneficial uses of Suisun Bay and its tributaries are:
 - a. Recreation
 - b. Fish migration and habitat
 - c. Habitat and resting for waterfowl and migratory birds
 - d. Esthetic enjoyment
 - e. Navigation

- 6. Effluent limitations and toxic effluent standards established pursuant to Sections 208(b), 301, 304 and 307 of the Federal Water Pollution Control Act and amendments thereto are applicable to the discharge.
- 7. Discharge requirements contained in this Order presume the discharge is stormwater runoff only. In the event of Group I wastes being discharged, for any reason, into the stormwater holding pond (pond 2B) it may be necessary to establish additional effluent criteria.
- 8. As this project is a reissuance of an NPDES permit, this Board, pursuant to Water Code Section 13389, is not required to comply with the provisions of Chapter 3 of Division 13 of the Public Resources Code (California Environmental Quality Act).
- 9. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
- 10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, and to the provisions of the Federal Water Pollution Control Act, as amended, and regulations and guidelines adopted thereunder, that IT Corporation shall comply with the following:

A. Discharge Prohibitions

- 1. The discharge of Group 1 wastes to waters of the State is prohibited.
- 2. The discharge of surface drainage from within the area indicated on Attachment B to this Order as "Boundary of Waste Disposal and Containment Area" but outside the area indicated as "Drainage Area for Stormwater Runoff Discharged to Pond 2B" is prohibited without written authorization from the Executive Officer.

B. <u>Discharge Specifications</u>

1. The discharge of an effluent containing constituents in excess of the following limits is prohibited:

Constituent	<u>Units</u>	30-Day <u>Average</u>	Maximum Daily
Settleable Matter	m1/1	1.0	3.0

Constituent	<u>Units</u>	30-day Average	Maximum Daily		
вор	lbs/day	25	250		
	kg/day	11	110		
	mg/l	30	60		
TOC	1bs/day	33	330		
	kg/day	15	152		
	mg/1	40	80		
Oil & Grease	lbs/day	8.3	83		
	kg/day	3.8	38		
	mg/l	10	15		
Mercury	lbs/day	0.006	0.058		
	kg/day	0.003	.027		
	mg/l	0.007	0.014		
Cyanide	lbs/day	0.025	0.21		
	kg/day	0.011	0.09		
	mg/l	0.030	.05		
Arsenic	1bs/day	0.3	3.3		
	kg/day	0.15	1.5		
	mg/1	0.4	0.8		
Cadmium	lbs/day	0.083	0.83		
	kg/day	0.038	0.38		
	mg/l	0.10	0.20		
Total Chromium	lbs/day	0.21	2.1		
	kg/day	0.095	0.95		
	mg/l	0.25	0.50		
Copper	lbs/day	0.02	0.21		
	kg/day	0.009	0.09		
	mg/l	.03	0.05		
Lead	lbs/day	0.042	0.42		
	kg/day	0.019	0.19		
	mg/l	0.050	0.10		
Nickel	lbs/day	0.4	4.2		
	kg/day	0.2	1.9		
	mg/l	0.5	1.0		
Zinc	lbs/day	0.42	3.8		
	kg/day	0.19	1.7		
	mg/l	0.5	0.9		

^{2.} The discharge shall not have pH of less than 6.5 nor greater then 8.5.

3. In any representative set of samples, the waste as discharged shall meet the following limit of toxicity:

The survival of test organisms acceptable to this Regional Board in 96-hour bioassays of the effluent as discharged shall achieve a median of 90% survival for three consecutive samples and a 90 percentile value of not less than 70% survival for 10 consecutive samples.

4. Erosion of the receiving water channel due to this discharge shall be minimized.

C. Receiving Water Limitations

- 1. The discharge of waste shall not cause the following conditions to exist in waters of the state at any place.
 - a. Floating, suspended, or deposited macroscopic particulate matter or foam;
 - b. Bottom deposits or aquatic growths;
 - c. Alteration of temperature, turbidity, or apparent color beyond present natural background levels;
 - d. Visible, floating, suspended, or deposited oil or other products of petroleum origin;
 - e. Toxic or other deleterious substances to be present in concentrations or quantities which will cause deleterious effects on aquatic biota, wildlife, or waterfowl, or which render any of these unfit for human consumption either at levels created in the receiving waters or as a result of biological concentrations.
- 2. The discharge shall not cause a violation of any applicable water quality standard for receiving waters adopted by the Board or the State Water Resources Control Board as required by the Federal Water Pollution Control Act and regulations adopted thereunder. If more stringent applicable water quality standards are promulgated or approved pursuant to Section 303 of the Federal Water Pollution Control Act, or amendments thereto, the Board will revise and modify this Order in accordance with such more stringent standards.

D. Provisions

1. Neither the treatment nor the discharge of pollutants shall create a nuisance as defined in the California Water Code.

- 2. Compliance with the effluent limitations specified in this Order shall be demonstrated prior to each discharge period. A report indicating compliance shall be submitted prior to the beginning of each discharge. Period (hours per day) and duration of discharge (days) shall be approved by the Executive Officer prior to discharge. The Executive Officer may waive certain pre-discharge analysis in emergencies when the immediate discharge of stormwater is necessary to insure sufficient emergency holding capacity in Pond 2B. In addition, the Executive Officer may require additional monitoring and set additional effluent criteria on constituents not listed in this Order in cases of discharge of Group I wastes to pond 2B due to spills or waste pond overflow.
- 3. To the extent possible while still complying with Discharge Specification B.4., the discharger shall make discharges during periods in which natural dilution is greatest.
- 4. The discharger shall comply with all Sections of this Order immediately upon adoption.
- 5. The discharger shall comply with a Self-Monitoring Program as ordered by the Executive Officer.
- 6. The discharger shall comply with all items of the attached "Standard Provisions, Reporting Requirements and Definitions" dated April 1977 except A.5, A.16, B.1, B.2, and B.5.
- 7. By October 1, 1981, a contingency plan shall be submitted. At a minimum the plan should address:
 - a) Containment of on-site spills of waste materials from vehicles to preclude contamination of pond 2B.
 - b) Containment of waste material in case of rupture or overtopping of waste pond dikes to preclude contamination of pond 2B.
 - c) Possible methods of treating wastes in pond 2B prior to discharge or alternative methods of disposal of water from pond 2B other than by discharge in cases where the liquid in pond 2B does not meet discharge requirements or in cases of contamination by wastes.
- 8. The Executive Officer may modify Attachment "B" to this Order when the discharger demonstrates that certain areas of the site are no longer used for waste disposal and are not subject to contact with wastes due to spills or overflow from ponds or vehicles. If the area had past contact with wastes the discharger shall demonstrate that future runoff from the site could not be contaminated by residual wastes.
- 9. This Board's Order No. 75-75 is hereby rescinded.
- 10. This Order expires on April 1, 1986, and the discharger must file a Report of Waste Discharge in accordance with Title 23, California Administrative Code, not later than 180 days in advance of such date as application for issuance of new waste discharge requirements.

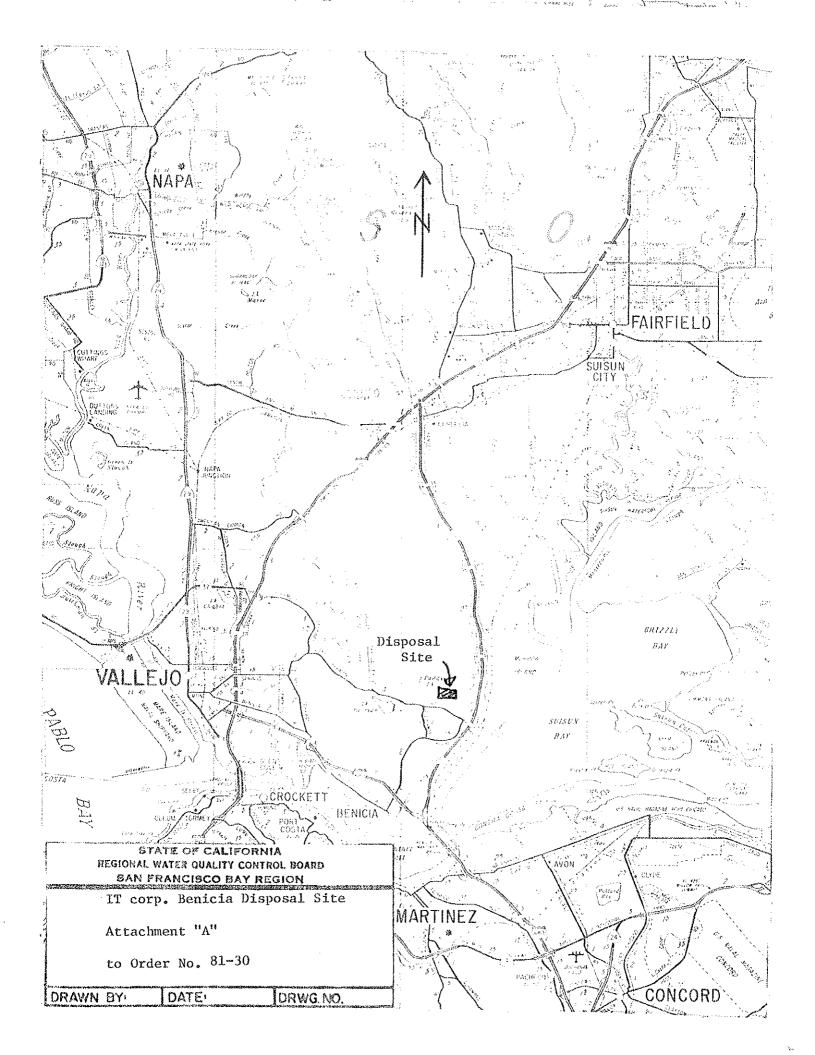
This Order shall serve as a National Pollutant Discharge Elimination System permit pursuant to Section 402 of the Federal Water Pollution Control Act, or amendments thereto, and shall become effective 10 days after date of its adoption provided the Regional Administrator, Environmental Protection Agency, has no objections.

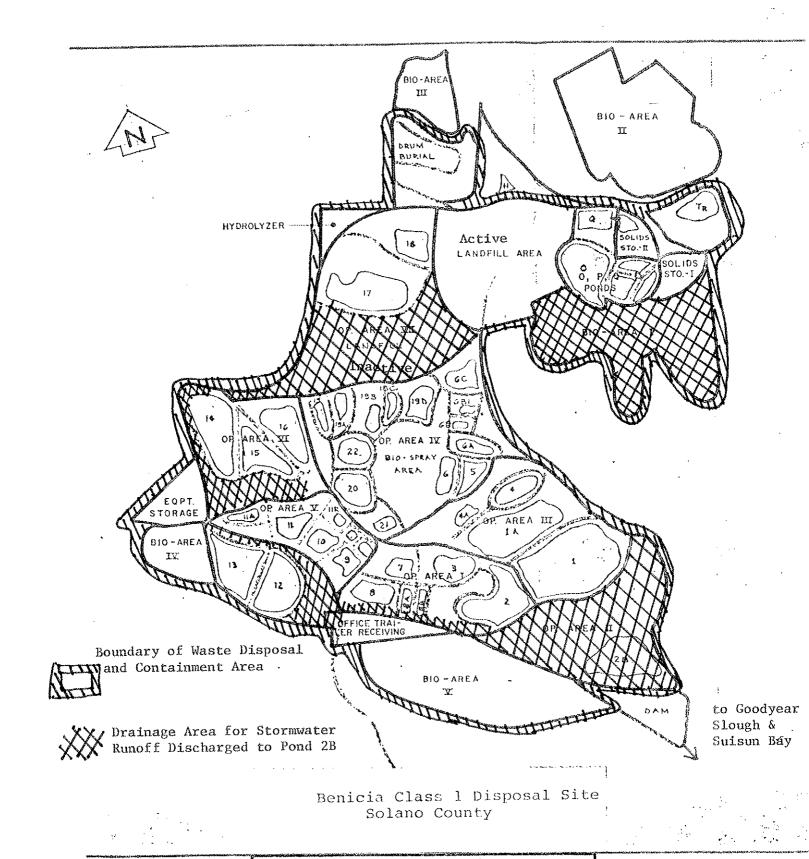
I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on May 20, 1981.

FRED H. DIERKER Executive Officer

Attachments:

Attachments A and B Standard Provisions & Reporting Requirments - April 1977





STATE OF CALIFORNIA
REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION
IT Corp. Benicia Disposal Site
Attachment "B"
to Order No. 81-30
DRAWN BY: DATE: DRWG.NO.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD SAN FRANCISCO BAY REGION

SELF-MONITORING PROGRAM FOR

IT Corporation
(Benicia Site - Stormwater Discharge)
NPDES NO. CA 0028100
ORDER NO. 81-30
CONSISTS OF
PART A
AND
PART B

PART B

I. DESCRIPTION OF SAMPLING STATIONS

A. POND

<u>Stations</u>	Description
PA	These stations are located directly above the intake of discharge pipe.
PA-1	Located one foot below water surface.
PA-2	Located one foot above the intake of the discharge pipe.
PA3	Located midway between Station "PA-1" and "PA-2."
РВ	Located 200 feet northerly of station "A" and at the midpoint of pond depth.
PC	Located 200 feet northwesterly of station "A" and at the midpoint of pond depth.
PD	Located at the water surface and 5 feet from the shore and at a downwind side of the safety dam.

B. EFFLUENT

Station	Description
Drarton	

E Located in the outfall pipe or at the point of discharge.

C. DAM STATIONS

Station <u>Description</u>

L-1 Located along the fail-safe dam at thru equidistant intervals not to exceed L-'n' 50 feet.

D. MISCELLANEOUS REPORTING

- Map showing the location of all stations must be submitted with each report.
- 2. Discharger shall notify the Regional Board staff prior to sampling and communicate to staff the analysis results required by Table I prior to discharge.

3. In case of a spill or overflow of waste material the Regional Board shall be immediately notified by telephone. Within 5 days of a spill or overflow a written report shall be submitted indicating the nature and extent of the spill and the status of cleanup or containment.

II. SCHEDULE OF SAMPLING AND ANALYSES

- A. The schedule of sampling and analysis shall be that given as Table I.
- B. Subsequent to the first major storm in each year's rainy season a composite sample shall be taken from stations PA-1, PA-2, and PA-3. The sample shall be analyzed for all "priority pollutants" as determined by the U. S. EPA and reported to this office prior to the discharge from pond 2B or as soon as analytical results are available. Designation of the first major storm shall be approved by the Executive Officer.

III. SPECIAL PROVISIONS

Discharge shall not be made unless the average of values from Stations A, B, and C comply with the effluent concentration limitations specified in Order No. 81-30. In emergencies the Executive Officer may modify the monitoring program required prior to discharge.

I, Fred H. Dierker, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

- 1. Has been developed in accordance with the procedure set forth in this Regional Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in Regional Board Order No. 81-30.
- 2. Is effective on the date shown below.
- 3. May be reviewed at any time subsequent to the effective date upon written notice from the Executive Officer or request from the discharger and revisions will be ordered by the Executive Officer.

FRED H. DIERKER Executive Officer

Attachment: Table I Federal Register

Effective Date 5-27-8

TABLE I SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSIS

Sampling Station	PA-1	PA-2	PA-3	PA	РВ	PC	PD	E	Sta.				
TYPE OF SAMPLE	G	G	G	c ⁽¹⁾	G	G	G	_C (3)	0	····			
Flow Rate (mgd)								D					
BOD, 5-day, 20 ^o C, or COD (mg/l & kg/day)				E	E	E		(4) 3D					
COD (mg/l & kg/day)	E	Е	Е		E	Е	Е			•			
TOC	Е	Е	Е	E	Е	E	Е	D					
(mg/1 & kg/day) Total Suspended Matter (mg/l & kg/day)	E	Е	Е		E	E	E						
Oil & Grease (mg/l & kg/day)	E	E	E		E	E	E	3D					
Settleable Matter (m1/1)	E	Е	Е		Е	E	Е	3D					
Fish Toxicity, 96-hr. TL ₅₀ % Survival in undiluted waste				E(2)	 			(4) 3D					
Ammonia Nitrogen (mg/l & kg/day)							·····						
Nitrate Nitrogen (mg/l & kg/day)													
Nitrite Nitrogen (mg/l & kg/day)		-											
Total Organic Nitrogen (mg/l & kg/day)													
Total Phosphate (mg/l & kg/day)													
Turbidity (Jackson Turbidity Units)													
pH (units)	E	Е	Е		Е	E	E	D		····			
Dissolved Oxygen (mg/l and % Saturation)	1	12						D					
Temperature (°C)	Е	E	E		Е	Е		D					
All Applicable Standard Observations									2D ⁽⁴⁾	***************************************			
Sulfides (if DO<5.0 mg/l) Total & Dissolved (mg/l)								3D					
Arsenic (mg/l & kg/day)				E	Е	Е		3D					
Cadmium (mg/l & kg/day)				Е	E	Е		3D					
Chromium, Total (mg/l & kg/day)				E	Е	Е		D D					1
Copper (mg/l & kg/day)				E	E	Е		3D					
Cyanide (mg/I & kg/day)				E	Е	Е		3D					
Silver (mg/l & kg/day													
Lead (mg/l & kg/day)				E	E	E		3D					

TABLE I
SCHEDULE FOR SAMPLING, MEASUREMENTS, AND ANALYSES

SAMPLING STATIONS	PA-1	PA2	PA-3	PA	РВ	PC	PC	E	All L Sta
TYPE OF SAMPLES	G	G	G	c ⁽¹⁾	G	G	G	c ⁽³⁾	0
Mercury (mg/l & kg/day)				E	E	E		3D	
Nickel (mg/l & kg/day)				E	E	E		3D	
Zinc (mg/l & kg/day)		Andreas and the second		E	E	E		·D	
TICH (mg/1 & kg/day)				E	Е	E	A Company Cont and 1 Stage	3D	
					The state of the s		Agent places		

LEGEND FOR TABLE

G = grab sample

D = daily

3D = every 3 days

E = each occurrence

2D = every two days

FOOTNOTES

- (1) Shall be based on a single composite made up of equal volumes from PA-1 PA-2, and PA-3.
- (2) Shall be based on a composite made up of equal volumes from A-3, B, and C.
- (3) Shall be a composite of the discharge taken over the period of discharge.
- (4) This analysis shall be performed daily if discharge is not continuous not counting non-work days or non-light hours.